

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/12783

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/10 C07K7/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, PAJ, CHEM ABS Data, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WRIGHTON N C ET AL: "SMALL PEPTIDES AS POTENT MIMETICS OF THE PROTEIN HORMONE ERYTHROPOIETIN" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, US, vol. 273, 26 July 1996 (1996-07-26), pages 458-463, XP002021036 ISSN: 0036-8075 the whole document	1-9
X	DIMARCO J-L ET AL: "Cysteine-rich antimicrobial peptides in invertebrates" BIOPOLYMERS, NEW YORK, NY, US, vol. 47, 1998, pages 465-477, XP002250231 ISSN: 0006-3525 the whole document	1-3, 8, 9

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the International search report

18 October 2004

02/11/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>SKELTON N J ET AL: "Amino acid determinants of beta-hairpin conformation in erythropoietin receptor agonist peptides derived from a phage display library" JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 316, no. 5, 8 March 2002 (2002-03-08), pages 1111-1125, XP004472484 ISSN: 0022-2836 the whole document</p> <p>-----</p>	1-9
X	<p>LOWMAN H B: "BACTERIOPHAGE DISPLAY AND DISCOVERY OF PEPTIDE LEADS FOR DRUG DEVELOPMENT" ANNUAL REVIEW OF BIOPHYSICS AND BIOMOLECULAR STRUCTURE, ANNUAL REVIEWS INC., PALO ALTO, CA, US, vol. 26, 1997, pages 401-424, XP000985597 ISSN: 1056-8700 cited in the application the whole document</p> <p>-----</p>	1-9
X	<p>SHANKARAMMA S C ET AL: "Macrocylic hairpin mimetics of the cationic antimicrobial peptide protegrin I: a new family of broad-spectrum antibiotics" CHEMBIOCHEM - A EUROPEAN JOURNAL OF CHEMICAL BIOLOGY, WILEY VCH, WEINHEIM, DE, vol. 3, 2002, pages 1126-1133, XP002272157 ISSN: 1439-4227 the whole document</p> <p>-----</p>	1-9
Y	<p>WO 03/054000 A (ROBINSON JOHN ANTHONY ; DESCOURS ANNE (CH); OBRECHT DANIEL (CH); POLYP) 3 July 2003 (2003-07-03) the whole document</p> <p>-----</p>	1-9
Y	<p>WO 00/77194 A (GENENTECH INC) 21 December 2000 (2000-12-21) the whole document</p> <p>-----</p>	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/12783

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 03054000	A 03-07-2003	WO CA EP	03054000 A1 2466591 A1 1458747 A1	03-07-2003 03-07-2003 22-09-2004
WO 0077194	A 21-12-2000	AU CA EP JP WO US	5611900 A 2376232 A1 1187914 A1 2003502304 T 0077194 A1 2003166003 A1	02-01-2001 21-12-2000 20-03-2002 21-01-2003 21-12-2000 04-09-2003